

0590
1025

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/871,161

DATE: 10/29/2001
TIME: 15:27:01

Input Set : A:\ENDEGE260XX.TXT
Output Set: N:\CRF3\10292001\I871161.raw

4 <110> APPLICANT: ENDEGE, WILSON O., ET AL.
6 <120> TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
7 PRODUCTS: II
9 <130> FILE REFERENCE: CCDNA-260XX
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/871,161
C--> 11 <141> CURRENT FILING DATE: 2001-05-31
11 <150> PRIOR APPLICATION NUMBER: 09/328,111
12 <151> PRIOR FILING DATE: 1999-06-08
14 <150> PRIOR APPLICATION NUMBER: 60/117,393
15 <151> PRIOR FILING DATE: 1999-01-27
17 <150> PRIOR APPLICATION NUMBER: 60/098,639
18 <151> PRIOR FILING DATE: 1998-08-31
20 <160> NUMBER OF SEQ ID NOS: 544
22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 618
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (1)...(618)
32 <223> OTHER INFORMATION: n = A,T,C or G
34 <400> SEQUENCE: 1
W--> 35 gcggtggtcng gccgaggtac agtctcggt cactgcaatc tctgcctgcc cagntcaagc 60
36 gattctccat catgttgcc aggtggtct caaatcctg aggtgatctg cccacctctg 120
37 cctgccaaag tgctgggatt acaggtgttg agcgatagtg ctcggcctat tatttctttt 180
W--> 38 taaatctttg gtagaattaa tcaactgaaac tatntgtgct ttttttgng gaaaaattat 240
W--> 39 ttatttttaa gacaggggtct tgntctgttg cctgtgctgg antgcagtgg tgcaatctca 300
W--> 40 gtttactgca acctgtgccc aacctactgn caagtgatcc tactgnetca cctccnagta 360
W--> 41 ncttgatta caggcacgcy ccaccatgcc cngntaggtt ttgnattttt aggagaaacn 420
W--> 42 gggtttcatn atattggnca gcnnngcctg agcttctgaa ctcaantgat ccncncctc 480
W--> 43 ggcctnccaa acaactgggat tacaggcgtg agccctcccc tgntgatacg nagnnggtttt 540
W--> 44 aanaagattt tcttcaantt ngtttaaaaa ttctaatttn ngaccatttt tctgcccgcg 600
W--> 45 ggcgnnaaag gcnatcn 618
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 640
49 <212> TYPE: DNA
50 <213> ORGANISM: Homo sapiens
52 <220> FEATURE:
53 <221> NAME/KEY: misc_feature
54 <222> LOCATION: (1)...(640)
55 <223> OTHER INFORMATION: n = A,T,C or G
57 <400> SEQUENCE: 2
58 actttttttt tttttttttt tttttgagac aggttcttgc tttgtcacct gggctgaagt 60
59 gcagtggcat gatcatggct cactgcagcc tcaacctcct aggtcaagt gattctctca 120
60 cctcctcctc ttgagtagat gggacttaca ggcgcagcc accacatgca gataattttt 180
W--> 61 gtattttttg tanaaacagg gttttgccat gttacccaaa ctggtcccaa gctcctgggc 240

ENTERED

P.5

OK

OK

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62 tcaagagatc tgccctgcccc aacctcccaa agtgcctggga attacaggca ttgagccacc 300
W--> 63 acaccagacc tgattgtttc ttctcataac tcaactctac tgntgatcct ctttaatgaa 360
W--> 64 ttttantttc aagtcattct acttttccac tccaaaattt tgatttgggt cttttaaata 420
W--> 65 aattttattt attggaattc tttatttggg gagaaggat catatattcc tttantttct 480
W--> 66 ttggcgngct ttcttttaac tctttgatat ttataatagc tgntttgaaa gctttttntg 540
W--> 67 gtaagtccaa cattngggnc ctcaangctt ttttaatgct gctttttttc ccctattatg 600
W--> 68 gnaaacttcc agttatttta tgctaataag gttcggaaaa 640
70 <210> SEQ ID NO: 3
71 <211> LENGTH: 635
72 <212> TYPE: DNA
73 <213> ORGANISM: Homo sapiens
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature
77 <222> LOCATION: (1)...(635)
78 <223> OTHER INFORMATION: n = A,T,C or G
80 <400> SEQUENCE: 3
81 aactagcat aaatgaagat taagaaataa gtctttccag attattttta ctcaagaatt 60
82 tgtttcagtg ctaggcaagg atgatcaatt ttagtttgca tatgaagact caaagggaga 120
83 tgattaaaag cacgtaactc ttgactcac ccctagaagg tctttgatga ggcccagcaa 180
84 tctggaaaat tatgatataa tattacacaa tgattattta acaatatattt agaagtaact 240
85 gccatttggg ggtcacagaa caataactaat ctcaattatg ttacccatca acaaattgaa 300
86 tataattaaa ttattttcaa aatatatggg ttgagattat ttccaatta aaattgccag 360
87 gtgaggaaca gcacttttcc attcgtcgtc gaatgtgatg aaatactgga tagtcataga 420
88 gggctacccc agatgtccct ttgggagaag tggttgggg gaaaatgggc tggttgtgtg 480
W--> 89 caccctaaact accctttaag aacttgggtc tggagccatt aaaaataatt gngctgggtc 540
W--> 90 tataaatatg aaaaactttg ggaaatcctt gtgacatcga tgcanttggg ttgggaagtt 600
91 cctgataaaa atatctaaaa atacacccat tgaaa 635
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 627
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <220> FEATURE:
99 <221> NAME/KEY: misc_feature
100 <222> LOCATION: (1)...(627)
101 <223> OTHER INFORMATION: n = A,T,C or G
103 <400> SEQUENCE: 4
104 acgcggggac taagacctca aaagcacagg cgacaaaaat aaaaatagac aaatgggaat 60
105 taactaagaa gtttctacac aacaaaagaa ataatacaac gagtaaacag ataatttcca 120
106 gaacggaaga aaatatgtgc aaactattca tccagcagtg gacaaatacc cagtatatac 180
107 aagaaactca aacaacaaca ataaaagaca aatcatcccc taaaaggag ggcaaaagac 240
108 aagaacagac atttttcaaa agaagatata caaatgacta acaggtatat taaaatgca 300
109 caacatcact aatcatcaga gaaatgcaa ttaaaaccac aatgagatat catcttacc 360
110 cagtcaaaa ggctactatt aaagagtcaa aaaataatag atcttgcca ggacatggat 420
111 aaaagagaac tcttacatag ttggtgtagg aatgcaaatt aacacagcct ctatagaaaa 480
W--> 112 cagtatnag attgctcaag aactaaaaat agagctatca tttgccanc atnccctgnt 540
W--> 113 gggttctacc caangaaaag aaatcatggt caaaaaaaa aaaaaaaa aaagtncttg 600
W--> 114 gcgggaccct aaggggatcc acccctn 627
116 <210> SEQ ID NO: 5
117 <211> LENGTH: 411

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118 <212> TYPE: DNA
119 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <222> LOCATION: (1)...(411) OK
124 <223> OTHER INFORMATION: n = A,T,C or G
126 <400> SEQUENCE: 5
127 cgagggtacgc ggcctggcca acatggtgaa acccgtctc taccaaagat acaaaaaatt      60
128 agccagggtgt ggtggcatgt gcctgtagtc ccagctactc aggaggatga ggcaggggaa      120
129 tcacttaaac ctgggaggcg gagattgcag tgagccaaga tcgcgctatt gcactctagc      180
130 ctgggtgaca gagcaagact ccgtctcaaa aaataataat aataaaatga aaataatcag      240
131 ctgggtgtgg tggcatgtgc ctgtagtccc agctactcag gaggatgagg caggggaatc      300
132 acttaaacct gggaggcgga gattgcagtg agccaagatc gcgctattgc actccagcct      360
W--> 133 gatgacagac ctagactccg tctccaaaaa aaaaaaanaa aaaaaaaaag t      411
135 <210> SEQ ID NO: 6
136 <211> LENGTH: 606
137 <212> TYPE: DNA
138 <213> ORGANISM: Homo sapiens
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (1)...(606) OK
143 <223> OTHER INFORMATION: n = A,T,C or G
145 <400> SEQUENCE: 6
146 accaagtcac cagacacaag taaatatggg ccttggggct tcttttcttg ctgacgcata      60
147 ttcacacagg cagcgtgtgc tgtgtgtgtt tacaactgtg tttcttagtc ttctattcag      120
148 agtaataaca gcatgacttc cctaagatct gattcagaga attgaaatat gccctgagaa      180
149 aacataagag gtttttctgg agaagtgtcc caagggtaat attaatgttt caaggatgtt      240
150 tcggaaaaag ttgcaatcat cactgtggca aatgaatcta gggagaggaa gcatgagtta      300
151 ttaaatgtca gttactcett tccgtaggtt tttgcctttt tttggacttt acacacagcc      360
W--> 152 catttgctat gaaactatca gctcaaatac cangttttca ngcaggccaa caatggcaga      420
W--> 153 ctgcattctt nctactttnt ccaatcatat ttatcaagtc ccattgggag aatactttca      480
W--> 154 gtagnctca aantaccgcg ntncaatggg aactgcangg aacnnttcag aaataacnct      540
W--> 155 tnaagaaaga aataaccctt canggaanac ccttnggnt tcactctann tggggttnac      600
156 aagaaa      606
158 <210> SEQ ID NO: 7
159 <211> LENGTH: 620
160 <212> TYPE: DNA
161 <213> ORGANISM: Homo sapiens
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature OK
165 <222> LOCATION: (1)...(620)
166 <223> OTHER INFORMATION: n = A,T,C or G
168 <400> SEQUENCE: 7
W--> 169 ccgtggcccc ggccgaaggc ccnctgganc cccgggtggg aattggctgg aggtaaatgg      60
W--> 170 tggtaangta ttaaccattt ctatggaaat gnccctttgg ggccctcctg gattttaaaa      120
W--> 171 tgggtccctg gtttggacnt ttctattaaa gaaatggnca ttttacctaa aatgccnggt      180
W--> 172 ctaccttatt aaagancaaa tngnntattn gaccttaaaa taggcatttt tcctaatacat      240
W--> 173 aatctggccg gcttaacccc aatcaagata attgggtgcc cnttatgaat ttgaagttag      300
W--> 174 tgatagcctc cttgtaaggc gctaccctna tggggataga gacccagct actantaatt      360

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W--> 175  nggggaaaatg gttaagggtat ttggggaaaag tactcttttta aaaacatatt ggccacagaa      420
W--> 176  ancctagget gaattacnng gattgataat ttignaanta atttctana atgggcnnngc      480
W--> 177  tggatgaaaa aatggcctcc tcnttttccc tggaaccagc ngctttttgc ctaaacntta      540
W--> 178  nccttttttaa gttgaacctt gggaccacct aatnggcctc acaattccct ttttcctttc      600
W--> 179  cttttttttt gcccaagggn                                620
181 <210> SEQ ID NO: 8
182 <211> LENGTH: 263
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 8
187  gcgtgggtcg cggccgaggt accacttttc ttattgcaac tcaacaagtg gcaattggtg      60
188  atgaaaagtc aagtggggaa cccagtcctgt ggggaacaaa tggataact tacctgtcac      120
189  cttgtctaac cgggatgcaa atcctcaagt ggtattaaaa agcatacagt gttttataac      180
190  tgtagttgtg tggaaagtaa ctgggtctcca agaacagaaa ttactcagcg cacttgggtg      240
191  aatgcccaag aaataatact tgt                                263
193 <210> SEQ ID NO: 9
194 <211> LENGTH: 590
195 <212> TYPE: DNA
196 <213> ORGANISM: Homo sapiens
198 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: (1)...(590) 6/4
201 <223> OTHER INFORMATION: n = A,T,C or G
203 <400> SEQUENCE: 9
204  acaacagggt tcttgcatac agcttcatgc tttcccagac atttactcaa gggaacgtgg      60
205  gagagggagg aggaggaggg gagctgggag tgataagcag atgttacaca tgtttttccct      120
206  ggaaagatca cccactttt tctaatttcc cagaattaaa agaattgatt ttatctgtat      180
207  taccatggaa attactagta acactggatt tttttccctc ttttctaaag tttccaaaaa      240
208  ctttcaaaag tgttcaaaga aattttcttg aacaatttta atatgtttga tttctcatth      300
209  ggggctggaa tatttgtatt ctttttaatt tttttacttc atttattaga agaagtttct      360
210  aatatgtgta ggaatacaat tttaaatgta agattatata gatgtagata tagatagata      420
W--> 211  gatatatgta gatatatnga tttatgtcnc aatatcactn taaggcattc ttcttccatc      480
W--> 212  cttttatata tncccaaact ggtntnatgg gacctgtcct gcctgtagggt aaaaancctn      540
W--> 213  taatttccct gaaaggctac cncctttctan ggggncaacc aattgggagn      590
215 <210> SEQ ID NO: 10
216 <211> LENGTH: 609
217 <212> TYPE: DNA
218 <213> ORGANISM: Homo sapiens
220 <220> FEATURE:
221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: (1)...(609) 6/4
223 <223> OTHER INFORMATION: n = A,T,C or G
225 <400> SEQUENCE: 10
226  cgaggtacgt ttttcaatgt tttaaaaaat tgaaagggag tataatgttt cataacacat      60
227  gggaaattat gtgcagctca aatttcaagt atccataaat aaagttttat tggaaacagag      120
W--> 228  ctacgctcac tcattagata ttgtctatgg ctgtttttgt gcaaaatggc aganttgggt      180
229  tcagagtttag caacagagag cttgtagcct gcaagcctag agtatttact atctggattt      240
230  ctacagaaaa aaaaaattat tgccccctgc catacagctc gactgatagc ctgagaaagt      300
W--> 231  atgcattaaa agaaagttac ctaccctgac cccatgagaa tgaatttgaa aagaaccnag      360

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W--> 232 atgtggtaga agcagatagg ctatgaaagt ttcagaaggg tancatcact gtgggcnagg 420
W--> 233 atattcaaga aaagacttca nggaaaatgt nggggtttga actggnccttg agtaggagtt 480
W--> 234 naacttanggg gaactggntt taggtngcca ctttaaggct gtcaaanatc atggcccaac 540
W--> 235 attcantttg gcccaaatc cccangngcc ttaaaaattt ggacatggct tgggttgggg 600
W--> 236 gncaccctt 609
      238 <210> SEQ ID NO: 11
      239 <211> LENGTH: 578
      240 <212> TYPE: DNA
      241 <213> ORGANISM: Homo sapiens
      243 <220> FEATURE:
      244 <221> NAME/KEY: misc_feature
      245 <222> LOCATION: (1)...(578)
      246 <223> OTHER INFORMATION: n = A,T,C or G
      248 <400> SEQUENCE: 11
      249 acgcgggatg tagtcagagg aggccctgac atctgcaggg cagcatgggt caaaccaaaa 60
      250 agacttttct gaggttgggc gcagtggctc acgcctgtaa tccaacact ttggaaggcc 120
      251 agtaggggcg gatcacctga ggtcaggaga ttcgagacca tcttggttaa cacggtgaaa 180
      252 ccccatctct actaaaaaaaa atacgaaaaa aattagccag gcgtgggtgac ggggtgcctgt 240
      253 agtcccagct actagggagg ctgaggcagg agaatgggtgt gaacccggga ggcagagctt 300
      254 gcagtgaagg gagatcaggc cactgcactc cagcctgggc cacaagagcg agactctgtc 360
W--> 255 ttaaaaaaaaa caaacaaaca aacacacaca cacacacaan aagacaaaaa taattagcag 420
      256 ggaatgctgg tgcattgctg tatcccaact ctcaggaggt tgaagcagga gaatcacctt 480
W--> 257 gacccatnag caatgttcat gaacttagnc cngccttgga cttcancaag gcaccgagta 540
W--> 258 aganttcntt tnaaaaaaaaa aannnaaaaa aaagtcc 578
      260 <210> SEQ ID NO: 12
      261 <211> LENGTH: 581
      262 <212> TYPE: DNA
      263 <213> ORGANISM: Homo sapiens
      265 <220> FEATURE:
      266 <221> NAME/KEY: misc_feature
      267 <222> LOCATION: (1)...(581)
      268 <223> OTHER INFORMATION: n = A,T,C or G
      270 <400> SEQUENCE: 12
      271 actttttttt tttttttttt tttttttttt gggacggagt cttgctctgt tgcccaggct 60
      272 ggagtgcagt ggcgccatct tggtcacta caagctccgc ctcccgggtt cacaccattc 120
      273 tctgtctta gctcccagc gcccgccacc gcacccggct aattttttgt atttttagta 180
      274 gagacagggt ttcacatgt tagccaggat ggtctcgatc tctgacctc gtggccacc 240
      275 tgccttggcc tccaaaagtg ctggaattac agtcgtgagc caccacgccc ggcctaaacc 300
      276 atttctcttg acaacactct ggattttatt tctggccaga taccatttat caattttacc 360
      277 atcaagaata agataatcaa aataataatc aagttttata ttagacttat gaagattctt 420
W--> 278 gcacctttga aattacagct atctcactag ttnattctcc tctctcatat ttattacng 480
W--> 279 acntccagga agacaaccaa cacctttaaa agttggctga gcatcttta nggagaccct 540
W--> 280 taggtaanag ggnccctnggc gggaacccct taggggnaat n 581
      282 <210> SEQ ID NO: 13
      283 <211> LENGTH: 607
      284 <212> TYPE: DNA
      285 <213> ORGANISM: Homo sapiens
      287 <220> FEATURE:
      288 <221> NAME/KEY: misc_feature

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

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L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11